1: DeLand O-4 (No date)1908 NQ17 Mandan NQ17

323 the whites came among them; and that when they saw the bril-
301 liantly colored beads of the traders, they conceived the idea of improving their art by using these beads. If they ever possessed the art of making glass de novo, there is no record, tradition, or other evidence of it, that I have been able to find."

Was It Ancient Art. "One of many reasons, though perhaps an insufficient reason, for believing the art to be of no recent origin among them, is that they used the triangular pendants, not as ornaments only, but as evidences of betrothal, as long ago as
[584] the oldest men can remember. When a girl was promised in marriage in her infancy by her parents, as was not infrequently done, one of these pendants was tied to her forelock so as to hang down over her forehead. When the promise was fulfilled, the husband removed the pendant and threw it away." (p. 22-23.)

439 **Inter-Tribal Trade.** "With the nomadic tribes around, they exchanged their agricultural produce for horses, and, recently,
● [824] for robes. When the Dakotas saw a certain flower (Liatris punctata) blooming on the prairie, they knew that the corn was ripe, and went to the villages of the farming Indians to trade. From
721 the time they came in sight of the village to the time they disappeared there was a truce. When they had passed beyond the bluffs, they might steal an unguarded pony or lift a scalp, and were in turn liable to be attacked." (p. 27.)

439 **Trade With Pacific Coast—Shells.** "It appears probable that they once carried on trade indirectly with the tribes of the Pacific coast, for they had Dentalium shells similar to those obtained on the Pacific and they prized them so highly that the white traders found it advisable to obtain them for the trade. As late as 1866, ten of these shells, of inferior size, costing the traders only a cent a piece, would buy a superior buffalo robe, and formerly only two or three of the same quality were paid for a robe. Modern traders, with whom the writer had conversed, obtained their shells from eastern importers, and know nothing of the original source of supply. They supposed them to come from the Atlantic coast or the Great Lakes, and called them 'Iroquois shells,' which is probably their corruption of the Chinook 'hyakwa;' but it is possible the reverse is the case.

439 "They also used, and still use, as ornaments, fragments of the
301 **Abalone** shells (one or more species of **Haliotis**) of the Pacific.

6: Wied-Neuwied 7-5 (1832-1834) 1843 NQ17 Mandan NQ17

The Mandans are hospitable, and often invite their acquaintance to come and see them. Their pipes are made of the red-stone, or of black clay. They obtain the red pipe-heads chiefly from the Sioux; sometimes they have wooden heads lined with stone; the tube is plain, long, round or flat, on the whole, of the same shape as among the Sioux, but they are not so fastidious about ornamenting their pipes as other tribes. They smoke the leaves of the tobacco plant, which is cultivated by them; the bark of the red willow *(Cornus sericea)*, which they obtain from the traders, is sometimes mixed with the tobacco, or the latter with the leaves of the bearberry *(Arbutus uva ursi)*. The tobacco of the Whites, unmixed, is too strong for the Indians, because they draw the smoke into their lungs; hence they do not willingly smoke cigars.

The meals of the Mandans are served in wooden dishes. The spoons are generally large and deep; they are made of the horn of the bighorn (see woodcut, p. 251); sometimes they are yellow, or else they are shallow, made of black buffalo's horn. They have a considerable variety of dishes. The Indians residing in permanent villages have the advantage of the roving hunting tribes, in that they not only hunt, but derive their chief subsistence from their plantations, which afford them a degree of security against distress. It is true these Indians sometimes suffer hunger when the buffalo herds keep at a great distance, and their crops fail; but the distress can never be so great among the Missouri Indians, as in the tribes that live further northwards. The plants which they cultivate are maize, beans, French beans, gourds, sunflowers, and tobacco *(Nicotiana quadrivalvis)*, of which I brought home some seeds, which have flowered in several botanic gardens.

Of maize there are several varieties of colour, to which they give different names. The several varieties are:—1. White maize. 2. Yellow maize. 3. Red maize. 4. Spotted maize. 5. Black maize. 6. Sweet maize. 7. Very hard yellow maize. 8. White, or red-striped maize. 9. Very tender yellow maize.*

The beans are likewise of various sorts—small white beans, black, red, and spotted beans. The gourds are—yellow, black, striped, blue, long, and thick-shelled gourds.

The sunflower is a large helianthus, which seems perfectly to resemble that cultivated in our gardens. It is planted in rows between the maize. There are two or three varieties, with red, and black, and one with smaller seeds. Very nice cakes are made of these seeds. The tobacco

* I brought to Europe specimens of the several kinds of maize grown among the Mandans; these have been sown, but only the early species were ripe in September, 1835. The heads have by no means attained the same size, on the Rhine, as in their native country. There the plant attains a height of five or six feet, and the colours of the grains are very various, bright and beautiful: while, on the Rhine, the plant grew to the height of four or four and a half feet. The later sorts grew to the height of ten feet, and were not quite ripe at the end of October. (See Bradbury, page 145, for an account of the maize of the Mandans.)

According to Tanner (page 180), an Ottawa Indian first introduced the cultivation of maize on the Red River, among the Ojibwas, or Chippeways.

6: Wied-Neuwied T-5 (1832-1834) 1843 NQ17 Mandan NQ17

cultivated by the Mandans, Manitaries, and Arikkaras, attains a great height, and is suffered to grow up from the seeds, without having any care whatever bestowed upon it. It is not transplanted. When it is ripe the stalks are cut, dried, and powdered; or the leaves, with the small branches, are cut into little pieces. The taste and smell are disagreeable to an European, resembling camomile rather than tobacco. The plant is not now so much cultivated as formerly, being superseded by the more pleasant tobacco of the Whites; but the species is still preserved. It is only on solemn occasions, for instance, in negotiations for peace, that this tobacco is still smoked; the seed is, therefore, preserved in the medicine bag of the nation, that the plant may never be lost. When they mean to smoke this tobacco, a small quantity of fat is rubbed on it.

The cultivation of the maize and other fields, of which each family prepares three, four, or five acres, takes place in the month of May. Rows of small furrows are made, into which the grains of maize are thrown singly, and covered with earth. Three times in the summer the plants are hoed, and the earth heaped up against them, that the moisture may have better access to them. The harvest takes place in October, when men, women, and children, each lend a helping hand. At present the women use, in their field labour, a broad iron hoe, with a crooked wooden handle, which they obtain from the merchants. Charbonneau recollected the time when they used the shoulder blade of the buffalo for this purpose. The fields are never fenced, but lie quite open and exposed.

The wild plants of the prairie are used by the Mandans, and other people of the Upper Missouri; and to those before-mentioned, I can only add the feverolles (*Faba minor equina*), a fruit resembling the bean, which is said to grow in the ground, but which I did not see; there are many other roots in the prairie, which are used for food. The gourds are eaten fresh as well as dry. The beans are seldom eaten of one kind, but many sorts are mixed together. The maize is boiled or roasted, then pounded, mixed with fat, and made up into small cakes and baked. There are, of course, many other ways of dressing it. The sweet maize has a very pleasant taste, especially when it is in what is called the milky state; it is then boiled, dried, and laid by for use.

All kinds of animals serve the Mandans for food; the bear, when it is young and fat, the wolf, the fox, in short, everything except the horse; the ermine is not eaten by many; and of birds they dislike the turkey-buzzard, and the raven, because they feed on the dead bodies deposited on the stages. They have a great aversion from serpents, but eat the turtle; the buffalo is the chief object of their chase, as it supplies them with skins, meat, tallow, marrow-bones, sinews, and many other necessaries. Next to the buffalo the beaver is the most indispensable to them, since it not only furnishes them with valuable skins, but supplies them with delicate food, the fat tail, especially, being considered quite a dainty morsel by the Indians. Pemmican,

6: Wied-Neuwied T-5 (1832-1834) 1843 NQ17 Mandan NQ17

262 which is so favourite a dish among the northern Indians, is not much in use among the Mandans. Their only drink is water, for they are unacquainted with the method of preparing fermented
[273] liquors. They did not obtain any spirits, either from the American Fur Company, or the agents of Messrs. Soublette and Campbell; hence an intoxicated person is scarcely ever seen. They are extremely fond of sugar, and likewise of salt, which they procure from their lakes, and, if the supply is insufficient, purchase from the Whites. They are likewise fond of coffee and tea, well sweetened. It has been affirmed, that several North American nations, especially those which speak the Algonquin language, are cannibals, and more particularly the Chippeways and the Potawatomis; but I found no trace of this unnatural custom among the Missouri nations.

592 Two, and sometimes three, families usually live together in an Indian hut, commonly the
595 father, with his married sons or sons-in-law. Polygamy is everywhere practised, and the number
596 of wives differs; however, they have very seldom more than four, and, in general, only one. The women are very skilful in various kinds of work, particularly in dyeing and painting the buffalo
386 robes. They extract a red colour from the roots of the savoyenne, or from buffalo berries; yel-
824 low from a lichen of the Rocky Mountains; black from belianthus, as well as from a black stone
439 or clay; blue and green they extract from European substances. Among the Mandans, Manitaries, and Arikkaras, the women, as Lewis and Clarke relate, manufacture beads from coloured glass. They powder those which they have obtained from the traders, and mould them into different shapes. This custom is, however, no longer common. The dyeing of the skins, of
323 which many travellers have spoken, employs a great portion of the women's time. These three nations understand the manufacture of earthen pots and vessels, of various forms and sizes. The clay is of a dark slate colour, and burns a yellowish-red, very similar to what is seen in the burnt tops of the Missouri hills. This clay is mixed with flint or granite, reduced to powder by the action of fire. The workwoman forms the hollow inside of the vessel by means of a round stone which she holds in her hand, while she works and smooths the outside with a piece of poplar bark. When the pot is made, it is filled and surrounded with dry shavings, and then burnt,
501 when it is ready for use. They know nothing of glazing. With respect to their boats, the North Americans are far more expert than the Brazilians, Patagonians, and other South Americans, who live on the banks of rivers, and yet have contrived no means to pass them. The Chippeways and other northern nations have handsome vessels of birch bark; the Esquimaux makes his kiack, which is curiously covered with seal skin; and on the Missouri, especially among the Mandans, there are boats of buffalo skin, which are represented in the plates accompanying this work. They are very light, of a circular form, stretched on a frame of several pieces of wood crossing each other, and may be carried on the shoulder of a single individual.

584 If a young Indian desires to marry, and has obtained the consent of the girl, he endeavours to procure that of her father; when he is certain of this, he brings two, three, nay, even eight or

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The Mandans and Manitaries make excursions as far as the Rocky Mountains, against their enemies, the Blackfeet, and against the Chippeways, to the country of Pembina. Their other enemies are the Sioux, the Arikkaras, the Assiniboins, and the Chayennes (spelt, by the English, Shiennes). They are at peace with the Crows. 721

The weapons of the Mandans and Manitaries are, first, the bow and arrow. The bows are made of elm or ash, there being no other suitable kinds of wood in their country. In form and size they resemble those of the other nations; the string is made of the sinews of animals twisted. They are frequently ornamented. A piece of red cloth, four or five inches long, is wound round each end of the bow, and adorned with glass beads, dyed porcupine quills, and strips of white ermine. A tuft of horsehair, dyed yellow, is usually fastened to one end of the bow. Pehriska-Ruhpa, in Plate XXIII., has such a weapon in his hand. The quiver, to which the bow-case is fastened, is made of panther or buffalo skin; in the first case, with the hair outwards, the long tail hanging down, and, as among the Blackfeet, lined with red cloth, and embroidered in various figures with white beads. Their handsome quivers are made of otter skin, which are much esteemed. A very beautifully ornamented one, belonging to the Crows, is represented in Plate XLVIII. Fig. 16. Narrow strips of skin hang down at both ends of the quiver. The arrows of the Mandans and Manitaries are neatly made; the best wood is said to be that of the service berry (*Amelanchier sanguinea*). The arrows of all the Missouri nations are much alike,* with long, triangular, very sharp, iron heads, which they themselves make out of old iron: it is but slightly glued to the shaft of the arrow, which is rather short, and generally remains in the body of the wounded animal. They know nothing of poisoning their arrows. The arrow-heads were formerly made of sharp stones: when Charbonnean first came to the Missouri, some made of flint were in use, and in the villages they are still met with, and in all those parts of the United States where the expelled or extirpated aborigines formerly dwelt. We were told that, in the prairie, near the Manitari villages, there is a sand hill, where the wind has uncovered a great number of such stone arrow-heads. Almost all the Mandans and Manitaries now have guns, which they ornament with bits of red cloth, on the brass rings of the ramrod, and at the but-end 411 [824]

* Though all their arrows appear, at first sight, to be perfectly alike, there is a great difference in the manner in which they are made. Of all the tribes of the Missouri the Mandans are said to make the neatest and most solid arrows. The iron heads are thick and solid, the feathers glued on, and the part just below the head, and the lower end, are wound round with very even, extremely thin sinews of animals. They all have, in their whole length, a spiral line, either carved or painted red, which is to represent the lightning. The Manitaries make the iron heads thinner, and not so well. They do not glue on the feathers, but only tie them on at both ends, like the Brazilians. The Assiniboins frequently have very thin and indifferent heads to their arrows, made of iron-plate. Mr. Say (Major Long's Expedition) says, that the arrow-wood (silverean) is used for their arrows by the Indians on the Lower Missouri and the neighbouring prairies. I conjecture that this shrub is the sloisr (*Crataegus torminalis*) of the Upper Missouri, which is sometimes used for bows, but very seldom for arrows. [824]